

4

File: Photo Panel

29 November 1963

MEMORANDUM FOR THE RECORD:

SUBJECT: Photo Working Panel

The objective of this group shall be to examine existing photography in detail and to explore the following points:

a. To conduct a detailed examination of photography and the system which produced it in order that:

(1) A statistically meaningful quantitative model of the present image quality can be derived.

(2) The various factors affecting image quality can be clearly identified and understood.

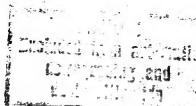
b. To combine the data obtained into a system model which satisfactorily represents the observed performance, including the effects of the atmosphere.

c. To use the system model derived to examine the possibility for system optimization in order to minimize the effects of the various contributors to image degradation.

d. To plan such experiments as may be required to gain needed additional insight.

e. ~~To recommend system or operational improvements for the present systems which will significantly improve the distribution of quality.~~

f. To make a careful study of the interaction of the photo interpreters with the film so as to establish a quantitative measure of the significance of stereo coverage, color photography, film contrast and resolution.



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g. To exploit the understanding gained to devise ways in which the basic area search and high resolution spotting requirements can be accomplished with significantly improved resolution with high confidence and to suggest new systems to fulfill these requirements.

h. To determine the relationship between the various measures of image quality.

i. To generate an operationally useful objective measure of image quality.

[Redacted]
Chairman

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